#### **Cluster 1. Numbers and Operation**

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

Grade 3	Grade 4	Grade 5
M1A1.3 Compare whole numbers using <, >, and = and order numbers up to 1000 and classify numbers as odd and even for numbers up to 1000.	M1A1.4 Read, compare, order, classify, and explain whole numbers up to one million.	M1A1.5 Compare, order, use, and represent simple fractions (halves, fourths, fifths, and tenths with all numerators) and decimals to hundredths.
	M1A2.4 Read, compare, order, classify, and explain simple fractions through tenths.	
		M1A3.5 Use divisibility rules for 2, 5 and 10.

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to:

Grade 3	Grade 4	Grade 5
M1B1.3 Solve single and multi-step, real-life problems using addition and subtraction with whole numbers with no number greater than 1000.	M1B1.4 Solve multi-step, real-life problems using the four operations with whole numbers.	M1B1.5 Compute and model all four operations on whole numbers (1-digit divisor, 3-digit dividend) and addition and subtraction with simple fractions with common denominators and decimals to hundredths and do straight computation with these numbers and operations.
	M1B2.4 Solve real-life problems involving addition and subtraction of simple fractions.	M1B2.5 Create, solve, and justify the solution for multi-step, real-life problems involving all four operations on whole numbers (1-digit divisor, 3-digit dividend) and addition and subtraction with simple fractions with common denominators and decimals to hundredths.
M1B3.3 Develop proficiency with the facts and algorithms of addition and subtraction on whole numbers using mental math and a variety of materials, strategies, and technologies with no number greater than 1000.	M1B3.4 Develop proficiency with the facts and algorithms of the four operations on whole numbers using mental math and a variety of materials, strategies, and technologies.	

Content Standard I. Discrete Mathematics: There is considerable overlap with other areas and other aspects are more appropriately assessed locally. No Grade Level Expectations.

#### **Cluster 1. Numbers and Operation**

Content Standard A: Number and Number Sense: Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:

of what humbers mean and now they are used. Students will be uble to:			
Grade 6	Grade 7 Grade 8		
M1A1.6 Compare, order, use and represent fractions, (halves, thirds, fourths, fifths, sixths, eighths and tenths with all numerators); and compare, order, use and represent decimals to thousandths and convert between decimals and percentages.	M1A1.7 Compare, order, use, and represent fractions, decimals, and percents and convert among different numeral forms (limited to terminating decimals for decimal to fraction conversion) and apply concepts of integers, absolute value and positive exponents.	M1A1.8 Use numbers in a variety of equivalent and interchangeable forms (e.g., integer, fraction, decimal, percent, exponential, and scientific notation) in problem-solving.	
M1A3.6 Recognize and apply	M1A3.7 Apply concepts of ratios in	M1A3.8 Apply concepts of ratios,	
concepts of prime and composite numbers and use divisibility rules for 2, 3, 4, 5, 6, 9 and 10; and recognize and find factors and multiples of natural numbers.	practical or other mathematical situations.	proportions, percents, and number theory (e.g. primes, factors, and multiples) in practical and other mathematical situations.	

Content Standard B: Computation: Students will understand and demonstrate computation skills (no calculator use for straight computation and numbers used in this section should match those listed for Standard A). Students will be able to:

Standard 11). Stadents will be use to:			
Grade 6	Grade 7	Grade 8	
M1B1.6 Compute and model all four operations with whole numbers, common fractions and decimals to thousandths, and do straight computation with these numbers and operations. Division limited to 2-digit whole number divisors and 3-digit dividends.	M1B1.7 Compute and model all four operations with whole numbers, fractions (including mixed numerals), decimals, and percents applying order of operations and do straight computation with these numbers and operations.	M1B1.8 Compute and model all four operations with whole numbers, fractions, decimals, sets of numbers, and percents, applying the proper order of operations.	
M1B2.6 Create, solve, and justify the solution for multi-step, real-life problems with whole numbers, common fractions and decimals to thousandths, with division limited to 2-digit whole number divisors and 3-digit dividends.	M1B2.7 Create, solve, and justify the solution for multi-step, real-life problems with whole numbers, fractions (including mixed numerals), decimals, and percents.	M1B2.8 Create, solve, and justify the solution for multi-step, real-life problems including those with ratio and proportion.	

Content Standard I. Discrete Mathematics: There is considerable overlap with other areas and other aspects are more appropriately assessed locally. No Grade Level Expectations.

Cluster 2. Shape and Size		
Content Standard e: Geometry:	Students will understand and ap	oply concepts form geometry.
Grade 3	Grade 4	Grade 5
M2E1.3 Use properties/ attributes limited to number of sides, number of angles, to identify, describe, and distinguish between triangles and rectangles and lengths of sides to identify squares as special rectangles.	M2E1.4 Describe, model, and classify shapes and figures using applicable properties.	M2E1.5 Use properties/ attributes limited to number of sides, number of angles, and length of sides, and lines of symmetry, to classify polygons.
M2E2.3 Identify a line of symmetry for a given shape or answer questions about figures based on lines of symmetry, e.g. "which of the following shapes have one or more lines of symmetry?"	M2E2.4 Experiment with shapes and figures to make generalizations regarding congruency, symmetry, and similarity.	
	M2E3.4 Use transformations such	M2E2.5. Plot non-negative values
	as slides, flips, and rotations.	as points on a number line.
skills. Students will be able to: Grade 3	Grade 4	Grade 5
M2F1.3 Solve and justify solutions to real-life problems involving the measurement of time, length, and temperature including using a ruler to measure length to the nearest inch and whole centimeter.  *Ruler on grade 3,4 &5 tests	M2F1.4 Solve and justify solutions to real-life problems involving the measurement of time, length, area, perimeter, weight, temperature, mass, capacity, and volume.	M2F2.5 Use ruler to measure length to the nearest quarter inch and centimeter.
M2F2.3 Select appropriate tools and units to measure length, time, and temperature	M2F2.4- Select measuring tools and units of measurement that are appropriate for what is being measured.	
		M2F3.5 Find area and perimeter of rectangles with whole numbers (includes formula use) with correct units.
		Formula sheets as appropriate in all grades.

Cluster 2. Shape and Size		
Content Standard e: Geometry	Students will understand and ap	oply concepts form geometry.
Grade 6	Grade 7	Grade 8
M2E1.6 Use properties/ attributes limited to number of sides, number of angles, and length of sides, lines of symmetry, parallel sides, perpendicular sides, and angles relative to 90° to classify polygons; and to compare and classify rectangular prisms, including cubes;	M2E1.7 Use properties/ attributes limited to number of vertices, number of edges, number of faces, shapes of faces, and types of angles to identify and distinguish among 3 dimensional shapes.	M2E1.8 Compare, classify, and draw two-dimensional shapes and three-dimensional figures.
and triangular prisms.		M2E2.8 Apply geometric propertie to represent and solve real-life problems involving regular and irregular shapes.
M2E3.6 Use ordered pairs as coordinates of points in the first quadrant of a coordinate plane.	M2E3.7 Use a coordinate system to define and locate position.	M2E3.8 Use a coordinate system to define and locate position.
	4 (24	. 1 . 1
skills. Students will be able to:	nent: Students will understand an  Grade 7	d demonstrate measurement  Grade 8
skills. Students will be able to: Grade 6 M2F2.6 Solve problems using elapsed time, thermometers, and	Grade 7  M2F1.7 Perform conversions between pairs within the following groups: inches, feet, yards, and miles; millimeters, centimeters, meters, and kilometers; cups, pints, quarts, and gallons; milliliters and liters; ounces, pounds and tons; grams and kilograms; seconds, minutes, hours, days, weeks,	Grade 8 M2F1.8 Demonstrate the structure and use of systems of

# Cluster 3. Mathematical Decision Making Content Standard C: Data Analysis and Statistics: Students will understand and apply concepts of data analysis. Students will be able to:

Grade 3	Grade 4	Grade 5
	M3C1.4 Make generalizations and	M3C1.5 Organize data to find
	draw conclusions using various	mode, median and range of a set of
	types of graphs, charts, and tables.	values.
M3C2.3 Read and interpret displays	M3C2.4 Read and interpret displays	
of data: line plots, tables, tally	of data.	
charts, and bar graphs, identifying		
least frequent, most frequent		
(mode*), reading, using and		
comparing values.		
*not responsible for this vocabulary		

Content Standard D: Probability: Students will understand and apply concepts of probability. Students will be able to:

In the following GLEs it is expected that students use area and set models.

in the following GLEs it is expected that students use area and set models.			
Grade 3	Grade 4 Grade 5		
M3D1.3 Recognize and describe the likelihood of the occurrence of an event using "likely", "not likely" or "equally likely."	he occurrence of an a sample of observed outcomes and simple even simulations. simple even fractions (1)	M3D1.5 Find the probabilities of simple events and represent them as fractions (1/2, 1/3, 2/3, 1/4, 2/4, 3/4 eligible).	

Content Standard J. Mathematical Reasoning: The time demand and cognitive demand of these indicators make them inappropriate for large-scale assessment. No Grade Level Expectations.

Maine Mainemancs G.	rade Level Expectations	s for Grades 5-8			
Cluster 3. Mathematical Deci	sion Making				
Content Standard C: Data Anal	ysis and Statistics: Students will	understand and apply concepts			
of data analysis. Students will b					
Grade 6	Grade 7 Grade 8				
M3C1.6 Organize data to find modes, medians, means and ranges for sets of data and displays: Data displays include frequency distributions, tables, line plots, or bar graphs (e.g., given a bar graph, determine the mode, median, range and mean).	M3C1.7 Organize data and analyze patterns and trends in data using modes, medians, means and ranges for sets of data (emphasis on comparing sets begins). Data displays include lists, tables, frequency distributions, line plots, bar graphs or stem and leaf plots.  M3C1.8 Organize and analyze using mean, median, mode, a range.				
Students will be able to:	y: Students will understand and a	pply concepts of probability.			
In the following GLEs it is expected the Grade 6	Grade 7	Grade 8			
M3D1.6 Find the probabilities of simple events (sample space number and number of desired outcomes given) and represent them as fractions (simplest form not needed).	M3D1.7 Find the probability of simple events and express the probability as a fraction or a percentage (percentages limited to multiples of 10% and 25%).	M3D1.8 Find the probability of simple events and make predictions by applying the theories of probability.			
M3D4.6 Find the number of arrangements of 3 factors with no more than 4 choices per factor (e.g.,	M3D4.7 Apply the idea of permutation in a problem situation with 6 elements or fewer (e.g., how	M3D4.8 Find all possible combinations and arrangements involving a limited number of			

Content Standard J. Mathematical Reasoning: The time demand and cognitive demand of these indicators make them inappropriate for large-scale assessment. No Grade Level Expectations.

word "math" be arranged?).

many ways can the four letters in the

variables.

tree diagram, organized list,

pictures).

	Manie Mathematics Grade Level Expectations for Grades 5-6			
Cluster 4. Patterns				
Content Standard G: Patterns, Relations, and Functions: Students will understand that				
mathematics is the science of patterns, relationships, and functions. Students will be able to:				
Grade 3	Grade 4 Grade 5			
M4G1.3 Determine the next term	M4G1.4. Use the patterns of	M4G1.5 Translate real-life		
or missing terms in patterns with numbers or shapes.	numbers, geometry, and a variety of graphs to solve a problem.	situations into addition, subtraction, multiplication, or division sentences.		
M4G2.3 Translate real-life	M4G2.4 Use variables and open			
situations into addition and	sentences to express relationships.			
subtraction sentences.	1			
		M4G3.5 Solve problems involving linear patterns in tables, graphs, words or rules using whole numbers.		
Content Standard H: Algebra Concepts. Students will be able	Concepts: Students will understanto:	nd and apply algebraic		
Grade 3	Grade 4	Grade 5		
	M4H1.4 Develop and evaluate simple formulas in problem-solving contexts.			
M4H2.3 Solve for a missing number or find the replacement for a symbol in addition and subtraction sentences using whole numbers.	M4H2.4 Find replacements for variables that make simple number sentences true.			
		M4H6.5 Solve one-step equations using addition, subtraction, or multiplication with a variable. Values are limited to whole		

Cluster 4. Patterns			
Content Standard G: Patterns, F	Relations, and Functions: Student	s will understand that	
mathematics is the science of pa	tterns, relationships, and function	s. Students will be able to:	
Grade 6 Grade 7 Grade 8			
M4G1.6 Translate real-life situations to addition, subtraction, sultiplication, and division entences with whole numbers (mix f operations included).  M4G1.7 Translate real-life linear situations into equations (limited to one step).		M4G1.8 Describe and represent relationships with tables, graphs, and equations.	
M4G3.6 Solve problems involving linear patterns in the form of tables, graphs, words, rules and equations using whole numbers, decimals to hundredths and simple fractions.	M4G3.7 Solve problems involving linear patterns in the form of tables, graphs, words, rules or equations using rational numbers (including signed values).	M4G3.8 Use patterns and multiple representations to solve problems.	
Content Standard H: Algebra C Students will be able to:	oncepts: Students will understand	d and apply algebraic concepts.	
Grade 6	Grade 7	Grade 8	
		M4H3.8 Analyze tables and graphs to identify properties and relationships in a practical context.	
M4H6.6 Solve one-step equations using whole numbers with all four operations.	M4H6.7 Solve two-step equations using integers and positive rational numbers.	M4H6.8 Find solutions for unknown quantities in linear equations and in simple equations and inequalities.	

Cluster 1 – Numbers	Cluster 2 – Shape and	Cluster 3 –	Cluster 4 - Patterns
and Operations	Size	Mathematical	
•		Decision Making	
A. Numbers and Number Sense M1A1.3 Compare whole numbers using <, >, and = and order numbers up to 1000 and classify numbers as odd and even for numbers up to 1000.  B. Computation M1B1.3 Solve single and multi-step, real-life problems using addition and subtraction with whole numbers with no number greater than 1000.  M1B3.3 Develop proficiency with the facts and algorithms of addition and subtraction on whole numbers using mental math and a variety of materials, strategies, and technologies with no number greater than 1000.	E. Geometry M2E1.3 Use properties/ attributes limited to number of sides, number of angles, to identify, describe, and distinguish between triangles and rectangles and lengths of sides to identify squares as special rectangles.  M2E2.3 Identify a line of symmetry for a given shape or answer questions about figures based on lines of symmetry, e.g. "which of the following shapes have one or more lines of symmetry?"  F. Measurement M2F1.3 Solve and justify solutions to real-life problems involving the measurement of time, length, and temperature including using a ruler to measure length to the nearest inch and whole centimeter.  M2F2.3 Select appropriate tools and units to measure length, time, and temperature	Mathematical Decision Making C. Data Analysis and Statistics M3C2.3 Read and interpret displays of data: line plots, tables, tally charts, and bar graphs, identifying least frequent, most frequent (mode*), reading, using and comparing values. *not responsible for this vocabulary  D. Probability M3D1.3 Recognize and describe the likelihood of the occurrence of an event using "likely", "not likely" or "equally likely."	G. Patterns, Relations, and Functions M4G1.3 Determine the next term or missing terms in patterns with numbers or shapes.  M4G2.3 Translate real-life situations into addition and subtraction sentences.  H. Algebra Concepts M4H2.3 Solve for a missing number or find the replacement for a symbol in addition and subtraction sentences using whole numbers.
	length, time, and		

Cluster 1 – Numbers	Cluster 2 – Shape and	Cluster 3 –	Cluster 4 - Patterns
and Operations	Size	Mathematical	
_		Decision Making	
A. Numbers and Number	E. Geometry	C. Data Analysis and	G. Patterns, Relations,
Sense	M2E1.4 Describe, model,	Statistics	and Functions
M1A1.4 Read, compare,	and classify shapes and	M3C1.4 Make	M4G1.4. Use the patterns
order, classify, and explain	figures using applicable	generalizations and draw	of numbers, geometry, and
whole numbers up to one	properties.	conclusions using various	a variety of graphs to solve
million.		types of graphs, charts, and	a problem.
	M2E2.4 Experiment with	tables.	
M1A2.4 Read, compare,	shapes and figures to make		M4G2.4 Use variables and
order, classify, and explain	generalizations regarding	M3C2.4 Read and interpret	open sentences to express
simple fractions through	congruency, symmetry, and	displays of data.	relationships.
tenths.	similarity.		
		D. Probability	H. Algebra Concepts
B. Computation	M2E3.4 Use	M3D1.4 Estimate	M4H1.4 Develop and
M1B1.4 Solve multi-step,	transformations such as	probability from a sample of	evaluate simple formulas in
real-life problems using the	slides, flips, and rotations.	observed outcomes and	problem-solving contexts.
four operations with whole		simulations.	
numbers.	F. Measurement		M4H2.4 Find replacements
	M2F1.4 Solve and justify		for variables that make
M1B2.4 Solve real-life	solutions to real-life		simple number sentences
problems involving addition	problems involving the		true.
and subtraction of simple	measurement of time,		
fractions.	length, area, perimeter,		
	weight, temperature, mass,		
M1B3.4 Develop	capacity, and volume.		
proficiency with the facts	) (OFO 4 G 1		
and algorithms of the four	M2F2.4 Select measuring		
operations on whole	tools and units of		
numbers using mental math	measurement that are		
and a variety of materials,	appropriate for what is		
strategies, and technologies.	being measured.		

	ics Grade Level E2		
Cluster 1 – Numbers	Cluster 2 – Shape and	Cluster 3 –	Cluster 4 - Patterns
and Operations	Size	Mathematical	
		Decision Making	
A. Numbers and Number	E. Geometry	C. Data Analysis and	G. Patterns, Relations,
Sense	M2E1.5 Use properties/	Statistics	and Functions
M1A1.5 Compare, order,	attributes limited to number	M3C1.5 Organize data to	M4G1.5 Translate real-life
use, and represent simple	of sides, number of angles,	find mode, median and	situations into addition,
fractions (halves, fourths,	and length of sides, and	range of a set of values.	subtraction, multiplication,
fifths, and tenths with all	lines of symmetry, to		or division sentences.
numerators) and decimals to	classify polygons.	D. Probability	
hundredths.		M3D1.5 Find the	M4G3.5 Solve problems
	M2E3.5. Plot non-negative	probabilities of simple	involving linear patterns in
M1A3.5 Use divisibility	values as points on a	events and represent them as	tables, graphs, words or
rules for 2, 5 and 10.	number line.	fractions (1/2, 1/3, 2/3, 1/4,	rules using whole numbers.
		2/4, 3/4 eligible).	!
B. Computation	F. Measurement		H. Algebra Concepts
M1B1.5 Compute and	M2F2.5 Use ruler to		M4H6.5 Solve one-step
model all four operations on	measure length to the		equations using addition,
whole numbers (1-digit	nearest quarter inch and		subtraction, or
divisor, 3-digit dividend)	centimeter.		multiplication with a
and addition and subtraction			variable. Values are limited
with simple fractions with	M2F3.5 Find area and		to whole numbers.
common denominators and	perimeter of rectangles with		
decimals to hundredths and	whole numbers (includes		
do straight computation	formula use) with correct		
with these numbers and	units.		
operations.			
M1D2 5 Creater and a selection of	Formula sheets as		
M1B2.5 Create, solve, and	appropriate in all grades.		
justify the solution for			
multi-step, real-life			
problems involving all four operations on whole			
numbers (1-digit divisor, 3-			
digit dividend) and addition			
and subtraction with simple			
fractions with common			
denominators and decimals			
to hundredths.			
to nundreduns.			

	Claster 2 Character L2	, <del>L</del>	
Cluster 1 – Numbers	Cluster 2 – Shape and	Cluster 3 –	Cluster 4 - Patterns
and Operations	Size	Mathematical	
		Decision Making	
A. Numbers and Number Sense M1A1.6 Compare, order, use and represent fractions, (halves, thirds, fourths, fifths, sixths, eighths and tenths with all numerators); and compare, order, use and represent decimals to thousandths and convert between decimals and percentages.  M1A3.6 Recognize and apply concepts of prime and composite numbers and use divisibility rules for 2, 3, 4, 5, 6, 9 and 10; and recognize and find factors and multiples of natural	E. Geometry M2E1.6 Use properties/ attributes limited to number of sides, number of angles, and length of sides, lines of symmetry, parallel sides, perpendicular sides, and angles relative to 90° to classify polygons; and to compare and classify rectangular prisms, including cubes; and triangular prisms.  M2E3.6 Use ordered pairs as coordinates of points in the first quadrant of a coordinate plane.	C. Data Analysis and Statistics M3C1.6 Organize data to find modes, medians, means and ranges for sets of data and displays: Data displays include frequency distributions, tables, line plots, or bar graphs (e.g., given a bar graph, determine the mode, median, range and mean).  D. Probability M3D1.6 Find the probabilities of simple events (sample space number and number of desired outcomes given) and	G. Patterns, Relations, and Functions M4G1.6 Translate real-life situations into addition, subtraction, multiplication, and division sentences with whole numbers (mix of operations included).  M4G3.6 Solve problems involving linear patterns in the form of tables, graphs, words, rules and equations using whole numbers, decimals to hundredths and simple fractions.  H. Algebra Concepts M4H6.6 Solve one-step
and multiples of natural numbers.  B. Computation M1B1.6 Compute and model all four operations with whole numbers, common fractions and decimals to thousandths, and do straight computation with these numbers and operations. Division limited to 2-digit whole number divisors and 3-digit dividends.  M1B2.6 Create, solve, and justify the solution for multi-step, real-life problems with whole numbers, common fractions	F. Measurement M2F2.6 Solve problems using elapsed time, thermometers, and scales.  M2F3.6 Compute the area and perimeter of triangles and rectangles with whole numbers (formula use), and find the volume of rectangular solids using pictures of blocks or gridded diagram with correct units.	represent them as fractions (simplest form not needed).  M3D4.6 Find the number of arrangements of 3 factors with no more than 4 choices per factor (e.g., tree diagram, organized list, pictures).	equations using whole numbers with all four operations.
and decimals to thousandths, with division limited to 2-digit whole number divisors and 3-digit dividends.			

Cluster 1 – Numbers	Cluster 2 – Shape and	Cluster 3 –	Cluster 4 - Patterns
and Operations	Size	Mathematical	
_		Decision Making	
A. Numbers and Number Sense M1A1.7 Compare, order,	E. Geometry M2E1.7 Use properties/ attributes limited to number	C. Data Analysis and Statistics M3C1.7 Organize data and	G. Patterns, Relations, and Functions M4G1.7 Translate real-life
use, and represent fractions, decimals, and percents and convert among different numeral forms (limited to	of vertices, number of edges, number of faces, shapes of faces, and types of angles to identify and	analyze patterns and trends in data using modes, medians, means and ranges for sets of data (emphasis on	linear situations into equations (limited to one step).
terminating decimals for decimal to fraction conversion) and apply concepts of integers, absolute value and positive exponents.	distinguish among 3 dimensional shapes.  M2E3.7 Use a coordinate system to define and locate position.	comparing sets begins). Data displays include lists, tables, frequency distributions, line plots, bar graphs or stem and leaf plots.	M4G3.7 Solve problems involving linear patterns in the form of tables, graphs, words, rules or equations using rational numbers (including signed values).
M1A3.7 Apply concepts of ratios in practical or other mathematical situations. <b>B. Computation</b> M1B1.7 Compute and model all four operations with whole numbers, fractions (including mixed numerals), decimals, and percents applying order of operations and do straight computation with these	F. Measurement M2F1.7 Perform conversions between pairs within the following groups: inches, feet, yards, and miles; millimeters, centimeters, meters, and kilometers; cups, pints, quarts, and gallons; milliliters and liters; ounces, pounds and tons; grams and kilograms; seconds, minutes, hours, days,	D. Probability M3D1.7 Find the probability of simple events and express the probability as a fraction or a percentage (percentages limited to multiples of 10% and 25%).  M3D4.7 Apply the idea of permutation in a problem situation with 6 elements or fewer (e.g., how many ways can the four letters in the	H. Algebra Concepts M4H6.7 Solve two-step equations using integers and positive rational numbers.
numbers and operations.  M1B2.7 Create, solve, and justify the solution for multi-step, real-life problems with whole numbers, fractions (including mixed numerals), decimals, and percents.	weeks, months, and years.  M2F3.7 Given formulas from which to choose, find areas and perimeters of 2-D shapes (includes circles), and volumes of rectangular solids with rational numbers with correct units.	word "math" be arranged?).	

Cluster 1 – Numbers	Cluster 2 – Shape and	Cluster 3 –	Cluster 4 - Patterns
and Operations	Size	Mathematical	
and operations	Size	Decision Making	
A. Numbers and Number	E. Geometry	C. Data Analysis and	G. Patterns, Relations,
Sense	M2E1.8 Compare, classify,	Statistics	and Functions
M1A1.8 Use numbers in a	and draw two-dimensional	M3C1.8 Organize and	M4G1.8 Describe and
variety of equivalent and	shapes and three-	analyze data using mean,	represent relationships with
interchangeable forms (e.g., integer, fraction, decimal,	dimensional figures.	median, mode, and range.	tables, graphs, and equations.
percent, exponential, and	M2E2.8 Apply geometric	D. Probability	equations.
scientific notation) in	properties to represent and	M3D1.8 Find the	M4G3.8 Use patterns and
problem-solving.	solve real-life problems	probability of simple events	multiple representations to
	involving regular and	and make predictions by	solve problems.
M1A3.8 Apply concepts of	irregular shapes.	applying the theories of	
ratios, proportions, percents,		probability.	H. Algebra Concepts
and number theory (e.g.	M2E3.8 Use a coordinate	MODA OF: 1 II III	M4H3.8 Analyze tables and
primes, factors, and	system to define and locate	M3D4.8 Find all possible combinations and	graphs to identify properties
multiples) in practical and other mathematical	position.	arrangements involving a	and relationships in a practical context.
situations.	F. Measurement	limited number of variables.	practical context.
Situations.	M2F1.8 Demonstrate the	infinited number of variables.	M4H6.8 Find solutions for
B. Computation	structure and use of systems		unknown quantities in
M1B1.8 Compute and	of measurements.		linear equations and in
model all four operations			simple equations and
with whole numbers,	M2F2.8 Develop and use		inequalities.
fractions, decimals, sets of	concepts that can be		
numbers, and percents,	measured directly, or		
applying the proper order of	indirectly (e.g., the concept		
operations.	of rate).		
M1B2.8 Create, solve, and	M2F3.8 Demonstrate an		
justify the solution for	understanding of length,		
multi-step, real-life	area, volume, and the		
problems including those	corresponding units, square		
with ratio and proportion.	units, and cubic units of		
	measure.		